

Figure 1:

5	SCS0007 FLJ32009 HCP50656.1	MWAGLLLRACVALLLPAPARGYTGRKPPGHFAAERRRLGPHV MWAGLLLRACVALLLPAPARGYTGRKPPGHFAAERRRLGPHV RGAGAEPSPGDPPFPVMWAGLLLRACVALLLPAPARGYTGRKPPGHFAAERRRLGPHV *****
10	SCS0007 FLJ32009 HCP50656.1	CLSGFGSGCCPGWAPSMGGGHCTPLCSFGCGSGICIAPNVCSQDGEQGATCPETHGPC CLSGFGSGCCPGWAPSMGGGHCTPLCSFGCGSGICIAPNVCSQDGEQGAT CPETHGPC CLSGFGSGCCPGWAPSMGGGHCTPLCSFGCGSGICIAPNVCSQDGEQGATCPETHGPC *****
15	SCS0007 FLJ32009 HCP50656.1	GEYGCDLTCNHGGCQEVAVRCPVGFSGMTETAVGIRCTDIDECVTSSCEGHCV NTEGGFVC GEYGCDLTCNHGGCQEVAVRCPVGFSGMTETAVGIRCTDIDECVTSSCEGHCVNTEGGFVC GEYGCDLTCNHGGCQEVAVRCPVGFSGMTETAVGIRCTDIDECVTSSCEGHCVNTEGGFVC *****
20	SCS0007 FLJ32009 HCP50656.1	ECGPGMQLSADRHSCQDTECLGTPCQQRCKNSIGSYKCSRTGFHLHGNRHSCVDVNEC ECGPGMQLSADRHSCQDTECLGTPCQQRCKNSIGSYKCSRTGFHLHGNRHSCVDVNEC ECGPGMQLSADRHSCQDTECLGTPCQQRCKNSIGSYKCSRTGFHLHGNRHSCVDVNEC *****
25	SCS0007 FLJ32009 HCP50656.1	RRPLERRVCHHSCHNTVGSFLCTCRPGFRLRADRVSCGE ----- RRPLERRVCHHSCHNTVGSFLCTCRPGFRLRADRVSCGEAFKAVLAPSAILQP RQHPSKM RRPLERRVCHHSCHNTVGSFLCTCRPGFRLRADRVSCGE ----- *****
30	SCS0007 FLJ32009 HCP50656.1	-----ALSP-----PDWQQGP-----LPAGT----- LLLLPEAGRPALSPGHSFPSPGAPGPPAGVTRLPSTPRLPTSSPAPVWLLSTLLATP -----ALSP-----PDWQQGP-----LPAGT----- **** * ** **
35	SCS0007 FLJ32009 HCP50656.1	-----WPCMNQGVAGQSLG----- VPTASLLGNLRPPSLLQGEVMGTPSSPRGPSPRLAAGPSPCWHLGAMHESRSRWTEPGC -----WPCMNQGVAGQSLG----- ** * *
40	SCS0007 FLJ32009 HCP50656.1	-----VPS-AGARLETCTACFVS----- SQCWCEGDKVTCEKVRCEAACSHPIPSRDGGCCPCTGCFHSGVVRAEGDVFP PNENCT -----VPS-AGARLETCTACFVS----- ** * * *
45	SCS0007 FLJ32009 HCP50656.1	--VLLAR-----VRPPIKTDCTCVPVRCYFHGRWYADGAVFSGGG DECTTC VCVCLAGNVSCISPECPSGPCQTPPTDCTCVPVRCYFHGRWYADGAVFSGGGDECTTC --VLLAR-----VRPPIKTDCTCVPVRCYFHGRWYADGAVFSGGGDECTTC * ** * *
50	SCS0007 FLJ32009 HCP50656.1	VCQNGEVECSFMPCPELACPREEWRLGPGQCCFTCQEPTPSTGCSLDDNGVEFFIGQIWS VCQNGEVECSFMPCPELACPREEWRLGPGQCCFTCQEPTPSTGCSLDDNGVEFFIGQIWS VCQNGEVECSFMPCPELACPREEWRLGPGQCCFTCQEPTPSTGCSLDDNGVEFFI GOIWS *****
55	SCS0007 FLJ32009 HCP50656.1	PGDPCELCICQADGVSCKRTDCVDSCPHPPIRIPGQCCPDCAAGAQRMLSLAGCTYTGR PGDPCELCICQADGVSCKRTDCVDSCPHPPIRIPGQCCPDCAAG -----CTYTGR PGDPCELCICQADGVSCKRTDCVDSCPHPPIRIPGQCCPDCAAGAQRMLSLAGCTYTGR *****
60	SCS0007 FLJ32009 HCP50656.1	IFYNNETFPSVLDPCLSCICLLGSVACSPVDCPITCTYPFHPDGECCPVCRDCNY EGRKV IFYNNETFPSVLDPCLSCICLLGSVACSPVDCPITCTYPFHPDGECCPVCRDCNYEGRKV IFYNNETFPSVLDPCLSCICLLGSVACSPVDCPITCTYPFHPDGECCPVCRDCNYEGRKV *****

5	SCS0007 FLJ32009 HCP50656.1	ANGQVFTLDDEPCTRCTCQLGEVSCEKVPCQRACADPALLPGDCCSSCPDLSPLEEKQG ANGQVFTLDDEPCTRCTCQLGEVSCEKVPCQRACADPALLPGDCCSSCPDLSPLEEKQG ANGQVFTLDDEPCTRCTCQLGEVSCEKVPCQRACADPAL LPGDCCSSCPDSPQPLQ----- ***** **
10	SCS0007 FLJ32009 HCP50656.1	LSPHGNVAFSKAGRSLHGDTEAPVNCSSCPGPPTASPSRPVLHLLQLLLRTNLMKTQTLF LSPHGNVAFSKAGRSLHGDTEAPVNCSSCPGPPTASPSR PVLHLLQLLLRTNLMKTQTLF --PPPTLAPSSPQWGLLGKSPF ---CCLG-----FPMLHCSFTAYLWEGGKRDPKP * . * * * * * * * *
15	SCS0007 FLJ32009 HCP50656.1	TSPAGAHGPHSLALGLTATFPGEFGASPRLSPGPSTPPG APTLPLASPGAPQPPVTPER TSPAGAHGPHSLALGLTATFPGEFGASPRLSPGPSTPPGAPTLPLASPGAPQPPVTPER TGGKCYFHGRWYTDGAVFSGGGDDCTTCVCQNGEVECSFTPCPELECPRE -----EW * . . * . * . * . * . *
20	SCS0007 FLJ32009 HCP50656.1	SFSASGAQIVSRWPPLPGTLLTEASALSMDPSPSKTFITLLGPRVLSF -TTSRLSTALA SFSASGAQIVSRWPPLPGTLLTEASALSMDPSPSKTFITLLGPRVLSF -TTSRLSTALA LLGPGQCCFTCREP -----TPTTGCSLDD-----NGVEFPIGQIWSFGDPCRRLCLO * . * * * * * * * *
25	SCS0007 FLJ32009 HCP50656.1	ATTHPGPQQPPVGASRGEESTMLSRFPFAALLIHRLPVGRWET ATTHPGPQQPPVGASRGEESTM ----- EDRLRGLLPAPHPDSWTVLS ----- * * * *

Figure 2:**Sequence****Annotation**

AK056571

weakly similar to FIBULIN -1, ISOFORM A Precursor

XP_166226.

similar to cysteine-rich motor neuron 1; cysteine-rich repeat-containing protein

5

S52 precursor; von Willebrand factor type C domain.

10

SCS0007
AK056571
XP_166226.MWAGLLLRRAA CVALLLPGAP ARGYTGRKPP GHFAAERRRL GPHVCLSGFG
MWAGLLLRRAA CVALLLPGAP ARGYTGRKPP GHFAAERRRL GPHVCLSGFG
.....MLLLLP... ..EAGR... ..

15

SCS0007
AK056571
XP_166226.SGCCPGWAPS MGGGHCTLPL CSFGCGSGIC IAPNVCSCQD GEQGATCPET
SGCCPGWAPS MGGGHCTLPL CSFGCGSGIC IAPNVCSCQD GEQGATCPET
.....PA LSPGHS.... ..PPS

20

SCS0007
AK056571
XP_166226.HGPCGEYGCD LTCNHGGCQE VARVCPVGFS MTETAVGIRC TDIDECVTSS
HGPCGEYGCD LTCNHGGCQE VARVCPVGFS MTEAAVGIRC TDIDECVTSS
GAP..... ..GPP... ..AGVRT T.....

25

SCS0007
AK056571
XP_166226.CEGHCVNTEG GFVCECGPGM QLSADRHSCQ DTDECLGTPC QQRCKNSIGS
CEGHCVNTEG GFVCECGPGM QLSADRHSCQ DTDECLGTPC QQRCKNSIGS
..... ..RLPSPT PRLTSSP..

30

SCS0007
AK056571
XP_166226.YKCSRTGFH LHGNRHSCVD VNECR RPLER RVCHHSCHNT VGSFLCTCRP
YKCSRTGFH LHGNRHSCVD VNECR RPLER RVCHHSCHNT VGSFLCTCRP
..... ..SAPVWL LSTLLATFPV TASLLGNLRP

35

SCS0007
AK056571
XP_166226.GFRLRADRVs CEG..... ..ALSP..
GFRLRADRVs CEAFPKAVLA PSAILQPRQH PSKMLLLPE AGRPALSFGH
PSLLQGEVMG TPS..... ..SP..

40

SCS0007
AK056571
XP_166226...PDWQGGP.LPAGT.
SPPSGAPGPP AGVRTTRLPS PTPRLTSS P SAPVWLLSTL LATPVPTASL
...RGPESP.RLAAGP.

45

SCS0007
AK056571
XP_166226...... ..WEPCMNQG VAGQSLG...
LGNLRPPSLL QGEVMGTPSS PRGPESPRLA AGPSPCWHLG AMHESRSRWT
..... ..SPCWHLG AMHESRSRWT

50

SCS0007
AK056571
XP_166226...... VP S.AGARLETC RACFVS....
EPGCSQCWCE DGKVTCEKVR CEAACSHPIP SRDGGCCPSC TGCFFHSGVVR
EPGCSQCWCE DGKVTCEKVR CEAACSHPIP SR DGGCCPSC TGCFFHSGVVR

55

SCS0007
AK056571
XP_166226......VLLA R.....VRPPIK TDCCTCVFVR
AEGDVFSPPN ENCTVCVCLA GNVSCISPEC PSGPCQTPPQ TDCCTCVFVR
AEGDVFSPPN ENCTVCVCLA GNVSCISPEC PSGPCQTPPQ TDCCTCVFVR

5 SCS0007 CYFHGRWYAD GAVFSGGGDE CTTCVCQNGE VECSEFMPCPE LACPREEWRL
AK056571 CYFHGRWYAD GAVFSGGGDE CTTCVCQNGE VECSEFMPCPE LACPREEWRL
XP_166226. CYFHGRWYAD GAVFSGGGDE CTTCVCQNGE VECSEFMPCPE LACPREEWRL

10 SCS0007 GPGQCCFTCQ EPTPSTGCSL DDNGVEFFIG QIWS PGDPCE LCICQADGSV
AK056571 GPGQCCFTCQ EPTPSTGCSL DDNGVEFFIG QIWS PGDPCE LCICQADGSV
XP_166226. GPGQCCFTCQ EPTPSTGCSL DDNGVEFFIG QIWS PGDPCE LCICQADGSV

15 SCS0007 SCKRTDCVDS CPHPIRIPGQ CCPDCSAGA QRMLSLAGCT YTGRIFYNNE
AK056571 SCKRTDCVDS CPHPIRIPGQ CCPDCSAG...CT YTGRIFYNNE
XP_166226. SCKRTDCVDS CPHPIRIPGQ CCPDCSAG...CT YTGRIFYNNE

20 SCS0007 TFPSVLDPCL SCICLLGSA CSPVDCPITC TYFFHPDGEC CPVCRDCNVE
AK056571 TFPSVLDPCL SCICLLGSA CSPVDCPITC TYFFHPDG EC CPVCRDCNVE
XP_166226. TFPSVLDPCL SCICLLGSA CSPVDCPITC TYFFHPDGEC CPVCRDCNVE

25 SCS0007 GRKVANGQVF TLDDEPCTRC TCQLGEVSCE KVPCQRACAD PALLPGDCCS
AK056571 GRKVANGQVF TLDDEPCTRC TCQLGEVSCE KVPCQRACAD PALLPGDCCS
XP_166226. GRKVANG QVF TLDDEPCTRC TCQLGEVSCE KVPCQRACAD PALLPGDCCS

30 SCS0007 SCPDLSPLE EKQGLSPHGN VAFSKAGRSL HGDTEAPVNC SSCPGPPTAS
AK056571 SCPDLSPLE EKQGLSPHGN VAFSKAGRSL HGDTEAPVNC SSCPGPPTAS
XP_166226. SCPDLSPLE EKQGLSPHGN VAFSKAGRSL HGDTEAPVNC S SCPGPPTAS

35 SCS0007 PSRPVLHLLQ LLLRTNLMKT QTLPTSPAGA HGPHSLALGL TATFPGEFGA
AK056571 PSRPVLHLLQ LLLRTNLMKT QTLPTSPAGA HGPHSLALGL TATFPGEFGA
XP_166226. PSRPVLHLLQ LLLRTNLMKT QTLPTSPAGA HGPHSLALGL TATFPGEFGA

40 SCS0007 SPRLSPGPS T PPGAPTLPPL SPGAPQPPPV TPERSFSASG AQIVSRWPPL
AK056571 SPRLSPGPST PPGAPTLPPL SPGAPQPPPV TPERSFSASG AQIVSRWPPL
XP_166226. SPRLSPGPST PPGAPTLPPL SPGAPQPPPV TPERSFSASG AQIVSRWPPL

45 SCS0007 PGTLLEASA LSMDPSPSK TPITLLGPRV LSPTTSRLST ALA ATTHPGP
AK056571 PGTLLEASA LSMDPSPSK TPITLLGPRV LSPTTSRLST ALAATTHPGP
XP_166226. PGTLLEASA LSMDPSPSK TPITLLGPRV LSPTTSRLST ALAATTHPGP

50 SCS0007 QQPPVGASRG EESTMLSRFP HAALLIHLRP VGRWET
AK056571 QQPPVGASRG EESTM.....
XP_166226. QQPPVGASRG EESTM.....